

Mid-term Review ~ Honors Chemistry

Mid-term Exam: Thursday, January 20, 2011

50 points – to be included in the 5th marking period grade

Unit One: Quantitative vs. qualitative data, significant figures, metric system, scientific notation, elements (names & symbols), density, factor labeling

Unit Two: matter, pure substance, homogeneous mixture, heterogeneous mixture, elements, compounds, physical properties & change, chemical properties & changes, endothermic & exothermic reactions, separation techniques (distillation, density, charcoal filtration, particle size, phase change)

Unit Three: Dalton's Atomic Theory, JJ Thomson, Robert Millikan, Ernest Rutherford, James Chadwick, Niehl's Bohr, protons, neutrons, electrons (how many, location, who knew), electron configuration, orbital diagrams, quantum theory & numbers, atomic mass units, grams, moles, molecules

Unit Four: Parts of the periodic table (metals, nonmetals, metalloids), families on the PT (alkali, alkaline earth, transitions, metals, nonmetals, halogens, noble gases, lanthanum, actinium), trends on the periodic table (ionization energy, atomic radius, electronegativity, shielding effect, electron affinity)

Unit Five: Common Ions, Ionic Bonds & Formulas, valence electrons, Percent composition, empirical formula, hydrates, percent composition of water

Test Details: 25 multiple-choice questions may have a periodic table. You WILL need a calculator and a No. 2 pencil

How to Study: Review notes to locate each topic, re-do math homework to be sure you can still complete each step (cover the answer to check) re-take quizzes, log-in to Blackboard and take on-line quizzes found in Extra Materials folder, see Mrs. Wilson or a classmate to review topics you don't remember or to re-learn the math problems you struggled in completing, be in class on January 14-19, 2011 for a review session (Taking a practice Mid-term, working with group to present a review on unit including problems and how to solve them)